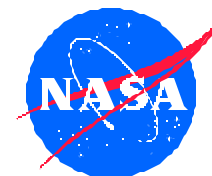


Composite Materials for Lightweight EMI Shielding



Triton Systems, Inc.
Chelmsford, MA



INNOVATION

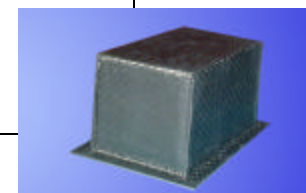
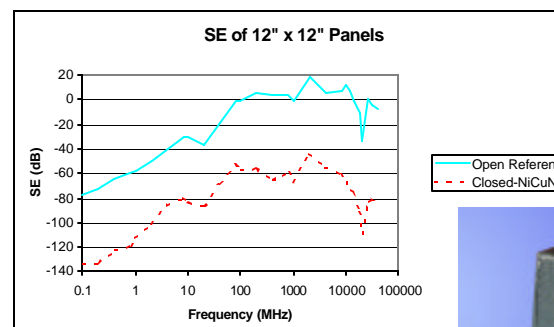
InstaShield™ family of electromagnetic (EM) shielding composite preregs and adhesives for ultra-light spacecraft, electrical enclosures, sensor housings and antenna components

ACCOMPLISHMENTS

- ◆ Demonstrated broadband EM shielding effectiveness

COMMERCIALIZATION

- ◆ Defense Threat Reduction Agency (DTRA) is funding the further development of *InstaShieldä* to meet their requirements and field use applications
- ◆ U.S. Air Force is funding (SBIR) *InstaShieldä* for application to tactical shelters
- ◆ Triton is currently discussing licensing and joint venture arrangements with a commercial supplier for toll processing of *InstaShieldä* preregs & film adhesives
- ◆ Triton now employ's two full time job equivalent on this SBIR



Triton ¾ Scale ATR (Aircraft Transportable Rack)

GOVERNMENT/SCIENCE APPLICATIONS

- ◆ NASA is currently flying test coupons on Material Instrumentation Space Station Experiment (MISSE) to evaluate the performance in low Earth orbit
- ◆ The DTRA has funded Phase I & II SBIR effort for *InstaShieldä* paste and film adhesives that match the EM shielding performance for Low Q (equal electrical performance) joining of carbon composites
- ◆ Hill Air Force Base and DTRA have jointly, in conjunction with the Joint Committee for Tactical Shelters, funded a Phase II to develop an all-composite shelter to replace 3,000 aging metal tactical shelters